**Index of Claims** 

| Application | /Control | No. |
|-------------|----------|-----|
|             |          |     |

10/768,031

MATSUTORI ET AL.

Applicant(s)/Patent under Reexamination

Examiner

Art Unit

Luan K. Bui

3728

| <b>√</b> | Rejected |
|----------|----------|
| =        | Allowed  |

| ı | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| C | Objected |

| Cla   | Date   |              |          |              |          |  |              |  |              |          |  |
|-------|--|--------------|----------|--------------|----------|--|--------------|--|--------------|----------|--|
| Final | Original                                     | 4/6/06       |          |              |          |  |              |  |              |          |  |
|       | 1  | +            |          |              |          |  |              |  |              |          |  |
|       | 2  | +            |          |              |          |  |              |  |              |          |  |
|       | 3  | +            |          |              |          |  |              |  |              |          |  |
|       | 1<br>2<br>3<br>4<br>5                        | +            |          |              |          |  |              |  |              |          |  |
|       | 5  | +            | L        |              | L        | 匚  | 匚            | L.   |              | Щ        |  |
|       | 6<br>7                                       | +            | _        | _            | L        | _  | _            | _  | L            |          |  |
|       | 7  | +            | <u> </u> | <u> </u>     | _        | L  | <u> </u>     |  |              |          |  |
|       | 8  | +            | <u> </u> | _            | _        | <u> </u>   | <u> </u>     | _  |              |          |  |
|       | 9  | +            | <u> </u> |              | <u> </u> | _  | _            | <u> </u>   | <u> </u>     |          |  |
|       | 10   | +            | _        | <u> </u>     | _        | <u> </u>   | <u> </u>     | <u> </u>   | <u> </u>     | -        |  |
|       | 11   | +            | ⊢        | <u> </u>     | ├        | <u> </u>   | ├            | _  | ├-           | _        |  |
|       | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | +            |          |              | $\vdash$ | $\vdash$   |              | $\vdash$   | $\vdash$     | $\vdash$ |  |
|       | 13   | +            |          | -            | $\vdash$ | ⊢  | <del> </del> | $\vdash$   | $\vdash$     | $\vdash$ |  |
|       | 15   | +            | <u> </u> | $\vdash$     | ├        | -  | -            | <del> </del>                                     | -            |          |  |
|       | 16   | +            | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$   |              | $\vdash$   | -            |          |  |
|       | 17   | +            | $\vdash$ | ┝            | ┝        | $\vdash$   | $\vdash$     | $\vdash$   | -            | $\vdash$ |  |
|       | 18   | H            | _        | H            | $\vdash$ |  | -            | -  | ┢            | $\vdash$ |  |
|       | 19   | -            | -        | H            |          |  | H            | $\vdash$   | ┢            |          |  |
|       | 20   |              |          |              | $\vdash$ |  | $\vdash$     | $\vdash$   | 1            | Н        |  |
|       | 21   | _            | -        | $\vdash$     | -        | <u> </u>   |              |  |              |          |  |
|       | 22   |              |          | Н            | $\vdash$ | $\vdash$   |              | <del>                                     </del> |              | Н        |  |
|       | 23   |              |          |              |          |  |              |  |              |          |  |
|       | 24   |              |          |              | $\vdash$ |  |              |  |              |          |  |
|       | 20<br>21<br>22<br>23<br>24<br>25<br>26<br>27 |              |          |              | Г        | Г  |              |  |              |          |  |
|       | 26   |              |          |              |          |  |              |  |              |          |  |
|       | 27   |              |          |              |          |  |              |  |              |          |  |
|       | 28<br>29<br>30                               |              |          |              |          |  |              |  |              |          |  |
|       | 29   |              |          |              | L        |  |              |  |              |          |  |
|       | 30   |              |          |              | <u> </u> |  |              |  |              |          |  |
|       | 31<br>32                                     | _            |          | _            | <u> </u> | _  |              |  |              | Ш        |  |
|       | 32   |              | _        |              | <u> </u> | <u> </u>   |              |  |              |          |  |
|       | 33   | _            | <u> </u> | <u> </u>     | <u> </u> | <u> </u>   |              | _  | ╙            |          |  |
|       | 34   | _            | _        | _            | <u> </u> | <u> </u>   |              | _  | _            |          |  |
|       | 35   | _            | _        | <u> </u>     | ┡        | ┡  | _            | <u> </u>   | _            | $\vdash$ |  |
|       | 36<br>37                                     | <u> </u>     | <u> </u> | <u> </u>     | ┡        |  | <u> </u>     | <u> </u>   | <u> </u>     | <u> </u> |  |
|       | 3/   | -            |          | -            | ├-       | ├-   |              |  | -            | _        |  |
|       | 38   | -            |          | ├—           | -        | ├  | _            | _  | ⊢            |          |  |
|       | 39   | -            | <u> </u> |              | $\vdash$ | $\vdash$   | -            |  | ├-           | $\vdash$ |  |
|       | 40<br>41                                     | $\vdash$     | —        | ├            | ⊢        | $\vdash$   | ┝            | <u> </u>   | $\vdash$     | $\vdash$ |  |
|       | 42   | <del> </del> | $\vdash$ | $\vdash$     |          | <del>                                     </del> | -            | <del> </del>                                     | <del> </del> | $\vdash$ |  |
|       | 43   | $\vdash$     | _        | <del> </del> | $\vdash$ |  | H            |  | $\vdash$     | $\vdash$ |  |
|       | 44   | -            | _        | _            | -        | -  | -            | -  |              | Н        |  |
|       | 45   |              | $\vdash$ | -            | -        | $\vdash$   | $\vdash$     |  |              | Н        |  |
|       | 46   |              | $\vdash$ | Н            | $\vdash$ | <del>                                     </del> | ┝╌           |  | Н            |          |  |
|       | 47   | $\vdash$     | _        | Н            | Н        | $\vdash$   | Н            |  | Н            |          |  |
|       | 48   |              | $\vdash$ | Т            | Т        | <del>                                     </del> | $\vdash$     | _  | П            |          |  |
|       | 49   |              |          |              | Г        | П  | П            |  | Ι            |          |  |
|       | 50   |              | _        | $\vdash$     |          |  | $\vdash$     | _  | 1            |          |  |

| la       | im       | Date     |          |          |          |              |          | Claim Date    |  |          |   | ,     |          |          |          |          |   |                |          |              |          |          |
|----------|----------|----------|----------|----------|----------|--------------|----------|---------------|--|----------|---|-------|----------|----------|----------|----------|---|----------------|----------|--------------|----------|----------|
|          | Original | 4/6/06   |          |          |          |              |          |               |  |          |   | Final | Original |          |          |          |   |                |          |              |          |          |
| ┪        | 1        | +        |          | $\vdash$ | $\vdash$ | $\vdash$     |          | $\vdash$      | $\vdash$   | -        |   |       | 51       |          |          | $\neg$   | _ |                |          |              |          |          |
| ┪        | 2        | +        |          | $\vdash$ | $\vdash$ | _            |          | -             | <del>                                     </del> |          |   |       | 52       |          |          |          |   |                |          |              |          |          |
| 1        | 3        | +        |          |          | -        | $\vdash$     | $\vdash$ | $\vdash$      | $\vdash$   |          |   |       | 53       | П        |          |          |   |                |          |              |          | $\neg$   |
| ┪        | 4        | +        |          | $\vdash$ | $\vdash$ | $\vdash$     |          | $\vdash$      |  |          |   |       | 54       |          |          |          |   |                |          |              |          |          |
| ᅦ        | 5        | +        |          |          |          |              |          | $\vdash$      |  |          |   |       | 55       |          | $\dashv$ |          |   |                |          |              |          |          |
| 7        | 6        | +        |          | _        | _        | Г            | Г        | Г             | Г  |          |   |       | 56       |          |          | $\neg$   |   |                | $\vdash$ |              |          |          |
| 7        | 7        | +        | -        | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$      | ┢  |          |   |       | 57       |          |          |          |   |                |          |              |          |          |
| ┪        | 8        | +        | -        | $\vdash$ |          |              |          |               |  |          |   |       | 58       | П        |          |          |   |                |          |              |          |          |
| 7        | 9        | +        |          |          | _        |              | _        | <u> </u>      | _  |          |   |       | 59       | $\Box$   | $\dashv$ | _        |   |                |          |              |          |          |
| 7        | 10       | +        |          |          | $\vdash$ |              | 一        |               |  |          |   |       | 60       | $\dashv$ | $\neg$   | _        |   |                |          |              |          | $\neg$   |
| 7        | 11       | +        |          | Т        | Т        | Т            | Н        |               | $\vdash$   |          |   |       | 61       |          | _        | _        | _ | _              |          | _            |          |          |
| ┪        | 12       | +        |          | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$      | $\vdash$   |          |   |       | 62       |          |          | $\neg$   | _ | -              |          | _            |          |          |
| ┪        | 13       | +        |          | $\vdash$ | Н        | $\vdash$     |          | $\vdash$      | $\vdash$   | _        |   |       | 63       | $\vdash$ | $\neg$   | _        |   |                |          |              | Н        | $\dashv$ |
| 1        | 14       | +        |          | $\vdash$ | $\vdash$ | 一            | _        | $\vdash$      | $\vdash$   |          |   |       | 64       | $\vdash$ | $\neg$   | $\neg$   |   | $\vdash$       |          | _            | -        |          |
| 1        | 15       | +        |          | $\vdash$ | $\vdash$ |              |          | $\vdash$      | -  |          |   |       | 65       | $\dashv$ | $\dashv$ | -        |   | -              | $\vdash$ | _            |          |          |
| ┪        | 16       | +        |          |          | H        | H            | ┢        | $\vdash$      | $\vdash$   | -        |   |       | 66       | $\dashv$ | -        | _        |   | -              |          |              |          | $\dashv$ |
| ┪        | 17       | +        |          | $\vdash$ | _        | $\vdash$     | _        | $\vdash$      | ┢  | -        |   |       | 67       |          |          |          |   |                |          |              |          | $\vdash$ |
| -        | 18       | ÷        |          | Н        | $\vdash$ | $\vdash$     | -        | -             | ┢  | $\vdash$ |   |       | 68       | $\vdash$ |          | $\dashv$ |   | Н              |          |              |          |          |
| -        | 19       |          |          | H        | $\vdash$ | -            | ⊢        | ┢             | ┢  | _        |   |       | 69       | Н        | $\dashv$ | $\dashv$ |   | Н              |          | _            |          |          |
| ┪        | 20       | H        | -        | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | ┢             | $\vdash$   | _        |   |       | 70       | $\dashv$ | -        |          |   | Н              | -        | _            |          | $\vdash$ |
| ┥        | 21       | -        |          |          |          | <del> </del> | ┝        | -             | ┝  | -        |   |       | 71       | -        | $\dashv$ |          |   |                |          |              |          | $\dashv$ |
| ᅥ        | 22       |          |          |          | $\vdash$ | <u> </u>     | -        | ┝             | -  | $\vdash$ |   |       | 72       | -        |          |          |   |                | $\vdash$ |              | $\vdash$ | $\dashv$ |
| ┪        | 23       | -        | _        | -        | -        | ┝            |          | $\vdash$      | -  | $\vdash$ |   |       | 73       | $\dashv$ | $\dashv$ | $\dashv$ |   | $\vdash$       | -        |              | $\vdash$ | $\dashv$ |
| ┪        | 24       |          | -        | $\vdash$ | ┝        | -            |          | -             | -  | -        |   |       | 74       | $\dashv$ | $\dashv$ |          | _ | -              | _        |              | -        | $\dashv$ |
| -        | 25       | _        |          | _        | ┝        | $\vdash$     |          | <del> </del>  | <del> </del>                                     | $\vdash$ |   |       | 75       | $\vdash$ |          |          | _ | -              |          |              | -        | $\dashv$ |
| ┥        | 26       |          |          | -        | -        | <del> </del> |          | -             | <u> </u>   | -        |   |       | 76       |          | -        |          |   |                |          |              |          | $\dashv$ |
| ᅱ        | 27       |          |          | $\vdash$ | H        | ┝            | _        | -             | $\vdash$   | $\vdash$ |   |       | 77       | Н        |          | $\dashv$ | _ | _              | _        |              |          | $\dashv$ |
| ┥        | 28       | _        |          |          | _        | _            | -        | ┝             | -  | ⊢        |   |       | 78       | $\dashv$ | $\dashv$ | $\dashv$ | _ | -              | $\vdash$ |              | $\vdash$ | $\vdash$ |
| ┪        | 29       | _        |          | -        | H        | H            | _        | H             | -  | ⊢        |   |       | 79       | $\dashv$ | -        | -        |   | -              | -        |              | $\vdash$ | $\vdash$ |
| ┪        | 30       | _        | _        | $\vdash$ | $\vdash$ | ┝            | _        | $\vdash$      | _  | ┝        |   |       | 80       | Н        | $\dashv$ | -        |   | -              |          |              | $\vdash$ | $\vdash$ |
| ┥        | 31       | _        | -        | -        | H        | ⊢            |          | _             | _  | $\vdash$ |   |       | 81       | $\vdash$ | $\dashv$ | $\dashv$ |   | -              |          |              | $\vdash$ |          |
| ┥        | 32       | _        | _        | _        | $\vdash$ | <del> </del> |          | -             | -  | ⊢        |   |       | 82       | $\dashv$ | $\dashv$ | -        |   | $\vdash$       |          |              | $\vdash$ | $\vdash$ |
| ┥        | 33       | -        | -        | _        | H        | -            | _        |               | _  |          |   |       | 83       | $\dashv$ | -        | -        | _ | -              |          | -            | $\vdash$ | -        |
| ┥        | 34       | _        |          | _        | H        | ├            | _        | _             | ┢  | $\vdash$ |   |       | 84       | Н        | $\dashv$ |          |   | -              | _        | _            | $\vdash$ |          |
| ┪        | 35       |          |          |          |          | -            | _        | -             | -  | _        |   |       | 85       | $\dashv$ | $\dashv$ | -        |   |                |          |              |          |          |
| ┪        | 36       |          |          | $\vdash$ |          | H            | _        | $\vdash$      | _  | $\vdash$ |   |       | 86       | H        | $\dashv$ | _        | _ | -              |          |              |          | -        |
| ┥        | 37       | -        | _        | $\vdash$ | <u> </u> | ┝            | -        | $\vdash$      | <del> </del>                                     | ├-       |   |       | 87       | $\dashv$ | ᅱ        | _        | _ |                |          |              | $\vdash$ | $\dashv$ |
| 1        | 38       | _        | -        | -        | $\vdash$ | -            | _        | <del></del>   | <del> </del>                                     | -        |   |       | 88       | $\dashv$ | $\dashv$ | $\neg$   |   | Н              | -        | _            | $\vdash$ | -        |
| ┪        | 39       | -        |          | -        | -        | Η-           |          |               | $\vdash$   |          |   |       | 89       | $\dashv$ | $\dashv$ | $\dashv$ |   |                |          |              |          |          |
| ┪        | 40       | _        |          | _        | $\vdash$ | _            |          |               | _  | _        |   |       | 90       | $\dashv$ | -        | -        | _ | -              | -        |              |          | -        |
| -        | 41       | _        | _        | -        | _        | H            | _        | _             | _  | _        |   |       | 91       | $\dashv$ | -        | -        | _ | -              | _        | _            | $\vdash$ | $\dashv$ |
| ┥        | 42       | _        | _        | _        |          | -            | _        | <del></del> - |  | _        |   |       | 92       | $\dashv$ | -        |          |   | -              |          | _            | $\dashv$ | $\dashv$ |
| ┪        | 43       |          |          | -        |          |              | H        |               | -  | -        |   |       | 93       | $\vdash$ | -        | _        |   | -              |          |              |          | $\dashv$ |
| ┥        | 44       |          | -        | -        |          | -            | -        | -             | -  | -        |   |       | 94       | $\dashv$ |          | $\dashv$ |   |                |          | -            | -        | $\dashv$ |
| $\dashv$ | 45       | $\vdash$ | $\vdash$ | $\vdash$ |          | $\vdash$     | H        |               | -  | Ь        |   |       | 95       | $\vdash$ | $\dashv$ | $\dashv$ | _ | $\vdash$       | _        | $\vdash$     | $\dashv$ | $\dashv$ |
| +        | 46       | $\vdash$ |          |          |          | -            | -        |               |  |          |   |       | 96       | $\vdash$ | $\dashv$ | -        | - | $\vdash$       | -        | -            | -        | $\dashv$ |
| ┥        | 47       | $\dashv$ | _        | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ | H             | Н  | -        |   |       | 97       | $\vdash$ | $\dashv$ |          | - | ┝╌┥            |          | $\vdash$     | $\dashv$ | $\dashv$ |
| +        | 48       | $\dashv$ | _        | $\vdash$ | $\vdash$ | _            | -        | $\vdash$      | $\vdash$   | <u> </u> |   |       | 98       | $\vdash$ |          |          | - | $\vdash\vdash$ |          | <del> </del> |          | $\dashv$ |
| $\dashv$ | 49       |          |          | ┝╌╢      | $\vdash$ | H            | Н        | H             | -  | _        |   |       | 99       | $\vdash$ | $\dashv$ | -        | _ | -              | —        | $\vdash$     | $\dashv$ | -        |
| +        | 50       | $\dashv$ | -        | $\vdash$ |          | $\vdash$     | $\vdash$ | Ι             | $\vdash$   | -        |   |       | 100      | $\vdash$ | $\dashv$ |          | _ | $\vdash$       | -        | -            | $\dashv$ | $\dashv$ |
| _        | JU       |          |          |          |          |              |          |               |  | L        | . |       | 100      |          |          |          |   | L              |          |              |          |          |

| Cla      | aim                             | Date     |  |  |  |  |  |              | $\neg$                              |                 |
|----------|---------------------------------|----------|--|--|--|--|--|--------------|-------------------------------------|-----------------|
|          |                                 |          |  |  |  |  |  |              |                                     | $\Box$          |
| Final    | Original                        |          |  |  |  |  |  |              |                                     |                 |
|          | 101<br>102<br>103<br>104<br>105 |          |  |  |  |  |  |              |                                     |                 |
|          | 102                             |          |  |  |  |  |  |              |                                     |                 |
|          | 103                             |          |  |  |  |  |  |              |                                     |                 |
|          | 104                             |          |  |  |  |  |  | $oxed{oxed}$ |                                     | Щ               |
|          | 105                             |          |  | L.   |  |  |  |              |                                     | Щ               |
|          | 106                             |          | <u> </u>   | <u> </u>   | _  | _  | L  | $\vdash$     |                                     |                 |
|          | 107                             |          |  | _  |  | _  | -  | _            | _                                   | $\vdash$        |
|          | 108<br>109                      |          | _  |  |  |  | ⊢  | _            | -                                   | $\vdash$        |
|          | 110                             |          | <u> </u>   | -  | -  |  |  |              | -                                   | Н               |
|          | 111                             | -        | <del> </del>                                     | $\vdash$   | -  | -  | ⊢  | _            | -                                   | Н               |
|          | 112                             | _        | _  | $\vdash$   | -  | -  | ┢  | _            | $\vdash$                            | Н               |
|          | 113                             | $\vdash$ | $\vdash$   | $\vdash$   | Н  | H  | $\vdash$   | H            | H                                   | ${\mathbb H}$   |
|          | 114                             | _        | $\vdash$   | 一  | $\vdash$   | -  | $\vdash$   | $\vdash$     |                                     | $\vdash \vdash$ |
|          | 114<br>115                      | <u> </u> | <del>                                     </del> | <del>                                     </del> |  | Н  | _  | $\vdash$     | Н                                   | H               |
|          | 116                             |          |  |  |  |  |  |              |                                     | П               |
|          | 116<br>117                      |          |  |  |  |  |  |              |                                     | П               |
|          | 118                             |          |  |  |  |  |  |              |                                     |                 |
|          | 119                             |          |  |  |  |  |  |              |                                     |                 |
|          | 120                             |          |  |  |  |  |  |              |                                     |                 |
|          | 121                             |          |  |  |  |  |  |              |                                     |                 |
|          | 122                             |          | L_   |  |  |  |  |              |                                     | Ш               |
|          | 122<br>123<br>124               |          | L.   |  |  |  |  |              |                                     | Ш               |
|          | 124                             | L        |  | _  |  |  |  | $oxed{oxed}$ |                                     | Щ               |
|          | 125<br>126                      | L.       | <u> </u>   | ļ  | _  | _  | L  | L            |                                     | Щ               |
|          | 126                             | _        | _  |  |  |  |  | _            | _                                   | Щ               |
|          | 127<br>128                      |          | _  | ├—   | _  | -  |  |              | <u> </u>                            | Н               |
|          | 128                             | _        | _  | $\vdash$   |  | _  | ├  |              | _                                   | $\vdash$        |
|          | 130                             | -        | _  | -  | -  |  | ⊨  | H            | ┝                                   | $\vdash$        |
| -        | 131                             | _        | $\vdash$   | $\vdash$   | $\vdash$   | -  |  | -            | -                                   | Н               |
|          | 132                             | _        | _  | ┢  | ┢  | _  | ┢  |              | $\vdash$                            | Н               |
|          | 133                             |          | _  | _  | _  |  | $\vdash$   |              | H                                   | H               |
|          | 133<br>134                      |          |  | $\vdash$   |  |  | $\vdash$   |              | $\vdash$                            | Н               |
|          | 135                             |          |  |  |  |  |  |              |                                     |                 |
|          | 136                             |          |  |  |  |  |  |              |                                     | П               |
|          | 136<br>137                      |          |  |  |  |  |  |              |                                     |                 |
|          | 138                             |          |  |  |  |  |  |              |                                     |                 |
|          | 139                             |          |  |  |  |  |  |              | 匚                                   |                 |
|          | 140                             |          | L  | _  | L  |  | _  | _            | L                                   | Ш               |
|          | 141                             |          | <u> </u>   |  | lacksquare                                       |  | <u> </u>   | _            | <u> </u>                            | Щ               |
|          | 142                             | <u> </u> | H  | <u> </u>   | <u> </u>   | ļ  | <u> </u>   | L            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Щ               |
|          | 143                             |          | H  | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>   | _            | -                                   | Щ               |
| <u> </u> | 144                             | H        | H  | $\vdash$   | $\vdash$   |  | $\vdash$   | ⊢            | $\vdash$                            | $\dashv$        |
|          | 145<br>146                      |          | _  | $\vdash$   | $\vdash$   | H  | $\vdash$   | -            | <u> </u>                            | $\vdash$        |
|          | 147                             | H        |  | -  | H  |  | -  | -            | -                                   | Н               |
| $\vdash$ | 148                             | $\vdash$ | Н  | $\vdash$   | <del>                                     </del> | -  | <del>                                     </del> | $\vdash$     | H                                   | $\vdash$        |
|          | 149                             | $\vdash$ |  | ├─   | <u> </u>   | H  | $\vdash$   | $\vdash$     | <del> </del>                        | $\vdash \vdash$ |
| -        | 150                             |          |  | -  | -  |  | -  |              |                                     | $\vdash \mid$   |
|          |                                 |          | ш  |  | $\Box$   | $ldsymbol{le}}}}}}} \end{timbol{ety}}}}$ |  | ш            | ш                                   | ட               |